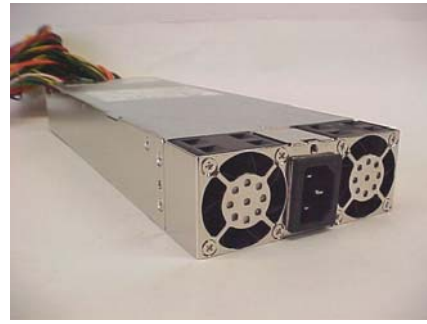




**Sparkle Power Inc.**  
 A Leading Power Supply Manufacturer  
 Web site: [www.sparklepower.com](http://www.sparklepower.com)



**FSP460-601U (Active PFC & RoHS Compliant)**  
**460 Watts, ATX12V, EPS12V, 1U Switching Power Supply**

**Features**

- Complied with ATX, ATX12V and EPS12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer (thermal fan speed control function)
- Low noise and ripple
- Complies with FCC part 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Approved by UL60950, CSA C22.2 NO. 60950, TUV EN60950 or VDE EN60950, NEMKO EN60950 (CB Report), CE

**Input Characteristics**

**Input Range:** 90 ~ 265Vac (RMS), Full Range Input

**Frequency:** 47 ~ 63Hz

**Input Current:** 9A (RMS) @115Vac, 5A (RMS) @230Vac

**Inrush Current:** 80A Max @115Vac, 120A Max @230Vac cold start

**Output Characteristics**

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	30A	+5%/4%	± 1%	50mV P-P
+5V	0.5A	30A	+5%/4%	± 1%	50mV P-P
+12V	2.0A	32A	+5%/4%	± 1%	120mV P-P
-5V	0.0A	0.3A	± 10%	± 1%	120mV P-P
-12V	0.0A	0.8A	+9%/5%	± 2%	120mV P-P
+5Vsb	0.0A	2.0A	+5%/4%	± 1%	50mV P-P

\*+5V and +3.3V total output not exceed 200W

\*+3.3V, +5V, and +12V total output cannot exceed 440W

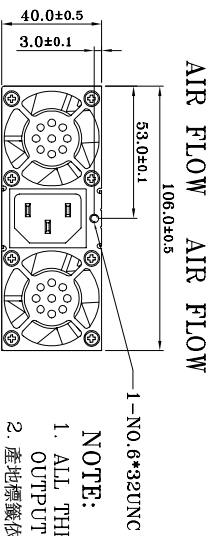
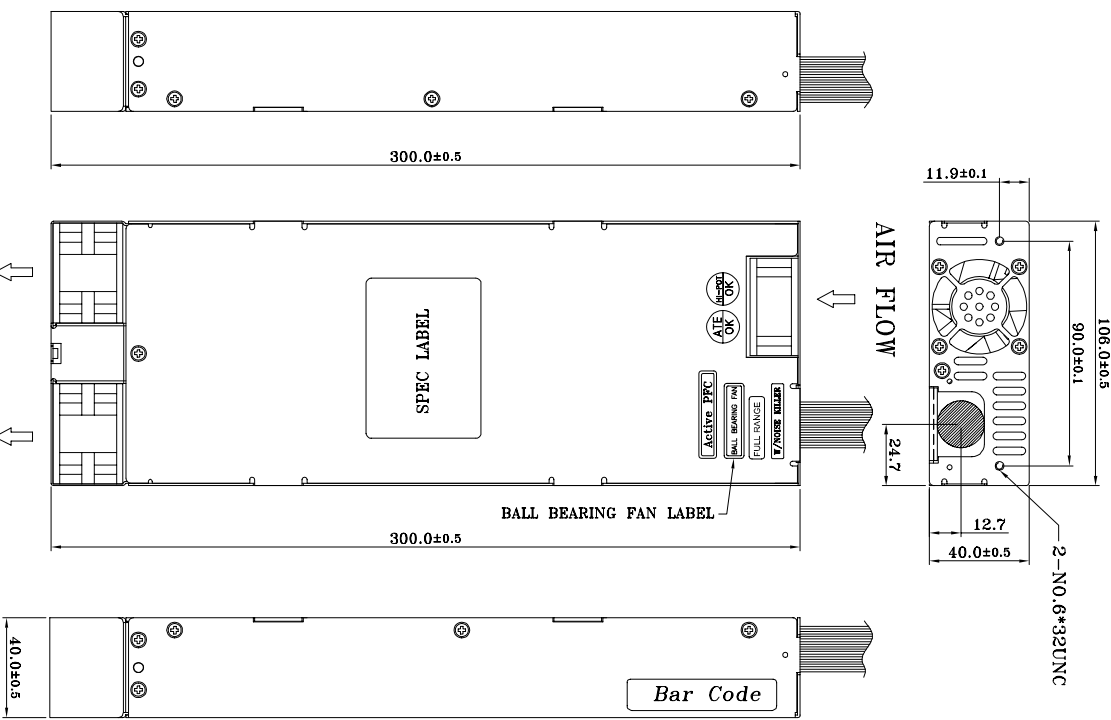
\* This subject power supply is 460W

**Specification**

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5 ~ 95% on operating and storage
- **Dielectric Withstand:** Input to frame ground 1800 VAC for 1 second
- **Efficiency:** 65% at minimum measured at nominal AC main voltage and frequency with maximum load on all outputs
- **Rise time:** Less than 50ms
- **Hold-up Time:** 18ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Not exceed 3.5mA at 264Vac, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 300x106x40mm/11.8x4.2x1.6inch

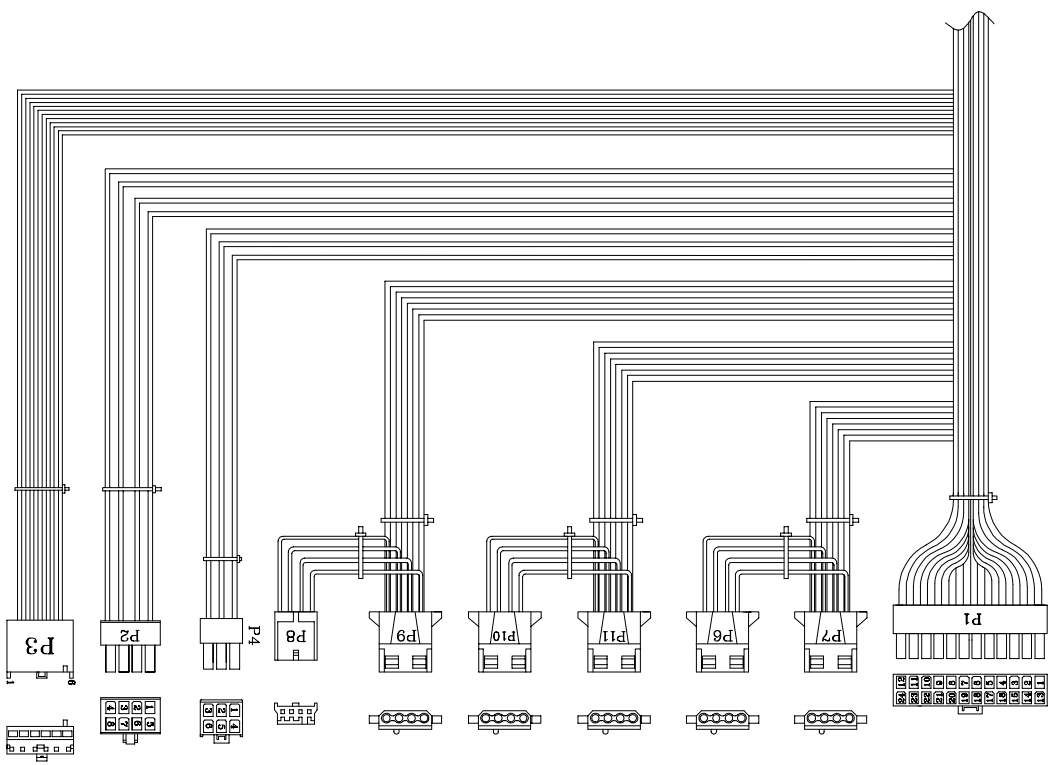
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 FAX: 626-839-3395



NOTE:

1. ALL THE LENGTH OF OUTPUT WIRES EXCLUDE HOUSING.
2. 產地標籤依業務指示加貼.



REF ID	PN	SIGNAL	WIRE	GAUGE	CONNECTOR	CABLE LENGTH
P1	1	+3.3VDC	ORANGE	18	MOLEX 500 or BQIV.	500 ±15.0 mm
	2	+3.3VDC	ORANGE	18	MOLEX 500 or BQIV.	
	3	COM	BLACK	18	MOLEX 500 or BQIV.	
	4	+5VDC	RED	18	MOLEX 500 or BQIV.	
	5	COM	BLACK	18	MOLEX 500 or BQIV.	
	6	+5VDC	RED	18	MOLEX 500 or BQIV.	
	7	COM	BLACK	18	MOLEX 500 or BQIV.	
	8	PS-ON	GREEN	18	MOLEX 500 or BQIV.	
	9	+5VDC	RED	18	MOLEX 500 or BQIV.	
	10	+12VDC	YELLOW	18	MOLEX 500 or BQIV.	
	11	+12VDC	YELLOW	18	MOLEX 500 or BQIV.	
	12	+3.3VDC	ORANGE	18	MOLEX 500 or BQIV.	
	13	+3.3VDC	BROWN	22	MOLEX 500 or BQIV.	
	14	-12VDC	BROWN	18	MOLEX 500 or BQIV.	
	15	COM	BLACK	18	MOLEX 500 or BQIV.	
	16	PS-ON	GREEN	18	MOLEX 500 or BQIV.	
	17	COM	BLACK	18	MOLEX 500 or BQIV.	
	18	COM	BLACK	18	MOLEX 500 or BQIV.	
	19	COM	BLACK	18	MOLEX 500 or BQIV.	
	20	-5VDC	WHITE	18	MOLEX 500 or BQIV.	
	21	+5VDC	RED	18	MOLEX 500 or BQIV.	
	22	+5VDC	RED	18	MOLEX 500 or BQIV.	
	23	+5VDC	RED	18	MOLEX 500 or BQIV.	
	24	COM	BLACK	18	MOLEX 500 or BQIV.	
P3	1	COM	BLACK	18	MOLEX 500 or BQIV.	500 ±15.0 mm
	2	COM	BLACK	18	MOLEX 500 or BQIV.	
	3	+3.3VDC	ORANGE	18	MOLEX 500 or BQIV.	
	4	+3.3VDC	ORANGE	18	MOLEX 500 or BQIV.	
P7	1	+12V	YELLOW	18	AMP 450 or BQIV.	200 ±10.0 mm
	2	COM	BLACK	18	AMP 450 or BQIV.	
	3	COM	BLACK	18	AMP 450 or BQIV.	
	4	+5V	RED	18	AMP 450 or BQIV.	
P11	1	+12V	YELLOW	18	AMP 450 or BQIV.	200 ±10.0 mm
	2	COM	BLACK	18	AMP 450 or BQIV.	
	3	COM	BLACK	18	AMP 450 or BQIV.	
	4	+5V	RED	18	AMP 450 or BQIV.	
P6	1	+12V	YELLOW	18	AMP 450 or BQIV.	200 ±10.0 mm
	2	COM	BLACK	18	AMP 450 or BQIV.	
	3	COM	BLACK	18	AMP 450 or BQIV.	
	4	+5V	RED	18	AMP 450 or BQIV.	
P10	1	+12V	YELLOW	18	AMP 200 or BQIV.	200 ±10.0 mm
	2	COM	BLACK	18	AMP 200 or BQIV.	
	3	COM	BLACK	18	AMP 200 or BQIV.	
	4	+5V	RED	18	AMP 200 or BQIV.	
P9	1	+12V	YELLOW	18	AMP 450 or BQIV.	450 ±15.0 mm
	2	COM	BLACK	18	AMP 450 or BQIV.	
	3	COM	BLACK	18	AMP 450 or BQIV.	
	4	+5V	RED	18	AMP 450 or BQIV.	
P8	1	+12V	YELLOW	22	AMP 200 or BQIV.	200 ±10.0 mm
	2	COM	BLACK	22	AMP 200 or BQIV.	
	3	COM	BLACK	22	AMP 200 or BQIV.	
	4	+5V	RED	22	AMP 200 or BQIV.	
P4	1	+3.3VDC	ORANGE	18	MOLEX 500 or BQIV.	500 ±15.0 mm
	2	+3.3VDC	ORANGE	18	MOLEX 500 or BQIV.	
	3	+12V	YELLOW	18	MOLEX 500 or BQIV.	
	4	COM	BLACK	18	MOLEX 500 or BQIV.	
P2	1	COM	BLACK	18	MOLEX 500 or BQIV.	500 ±15.0 mm
	2	COM	BLACK	18	MOLEX 500 or BQIV.	
	3	COM	BLACK	18	MOLEX 500 or BQIV.	
	4	+12V	YELLOW	18	MOLEX 500 or BQIV.	

FSP P/N.:9PA4600507  
 SPI P/N.:FSP460-601UR

MODEL NO. : FSP460-601U(S034)	TITLE: ASSY	SHEET: 1 OF 1	REV: 01
R&D	PE	DRAWN	DATE
INTERIOR COUNTERSIGN:			Aug.26.2005

黄钰婷